

Abstract

The present invention describes a procedure designed to reduce artifacts full-frame animations are taken and converted for use on an interlaced display (such as NTSC televisions). Each frame of animation is rendered at four times video resolution (1440x960 for video at 720x480) and twice temporal resolution (120 frames per second). Each frame is then resized with bicubic interpolation to 720x480 to produce smooth antialiased frames. Every pair of frames is then frame blended together to form one frame with motion blur. A gaussian blur of 0.2 pixel radius is applied to each frame and, finally, odd fields from each odd frame are interlaced with even fields from each even frame. The resulting video is smooth with minimal aliasing artifacts.